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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,239		09/24/2003	Maksim Berezin	CM01122S	3534
22917	7590	12/17/2004		EXAMINER	
MOTOROI	,	QUIN ROAD	WIMER, M	WIMER, MICHAEL C	
IL01/3RD	ALGOIN	ZOUN KOAD	ART UNIT	PAPER NUMBER	
SCHAUMB	URG, IL	60196	2828		
				DATE MAILED: 12/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/669,239	BEREZIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael C. Wimer	2828				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This	action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Paper No(s)/Mail Date						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips et al. (6765536).

Regarding Claims 1 and 2, Phillips et al. show an antenna device in Fig. 9 with a conducting base 14 and an elongate conducting element 10 EM-coupled to and extending from the base, and a parasitic conductor 12 electrically connected to and extending from the base 14, wherein it would have been obvious to the skilled artisan that the driven conducting element 10, parasitic conductor 12 and the base are mutually configured to provide conducting surfaces in which RF electrical currents can flow in a plurality of frequency bands to provide omnidirectional radiation patterns in two mutually orthogonal planes. Phillips et al. suggest at col. 8, lines 13-62, that different antenna configurations may be employed in order to provide the desired directivity. Orthogonally-polarized antenna elements fall into this teaching in order to provide the desired directivity.

3. Claims 3-24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips et al. (6765536) as applied to claim 1 above, and further in view of Holshouser et al. (6107970).

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No insulating substrate appears to be taught by Phillips et al. Thus, the patent to Holshouser et al. is cited as resolving the level of ordinary skill in the antenna art and shows a helical antenna 46b formed on one side of a substrate 40 with the parasitic element 44 formed on the opposite side in Figures 7A and 7B.

The specific geometries of the conductors, base block, bends in the conductors as set forth in Claims 4-24, including the microstrip construction of the printed conductors in Holshouser et al. are taught and shown in the prior art of record.

The specific band of service as set forth in claim 24 is obvious to provide to the skilled artisan when designing a particular service.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (571) 272-1833. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun O. Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael C. Wimer Primary Examiner Art Unit 2828

MCW 12/06/2004